

Claims

What is claimed is:

1. A work surface guide for power tools comprising:

- a. an elongated inner guide rail;
- b. an elongated outer guide rail aligned at least substantially parallel to the inner guide rail, whereby a power tool may travel on the inner and outer guide rails with a power tool cutting head extending therebetween into a cutting area defined below and between the guide rails;
- c. opposing spaced frame members supporting and extending downwardly from the guide rails to terminate in frame member attachment ends, the frame member attachment ends each defining:
 - (1) a downwardly extending vertical leg, and
 - (2) a horizontal leg extending from the vertical leg, and also extending away from the inner and outer guide rails,whereby each attachment end defines a mounting mouth between its vertical and horizontal legs, the mounting mouth being adapted to receive a corner edge of a mounting surface therein to support the guide rails above the mounting surface with the cutting area located adjacent the corner edge of the mounting surface;
- d. an elongated board fence pivotally affixed to and below the inner guide rail to swing in planes oriented at least substantially parallel to the inner and outer guide rails and between the frame members;

whereby a board may be placed on the mounting surface and slid thereon against the board fence toward the corner edge of the mounting surface to thereby enter the cutting area, at which point the board may be cut by the cutting head of a power tool traveling on the guide rails.

2. The work surface guide of claim 1 wherein:
- a. the board fence has opposing side surfaces along its length against which a board may slide;
 - b. at least one of the side surfaces includes a fence board stop extending therefrom; and
 - c. the fence board stop is relocatable along the lengthwise axis of the board fence.
3. The work surface guide of claim 2 wherein the fence board stop is also removable from the board fence.
4. The work surface guide of claim 2 wherein the fence board stop:
- a. slides in a slot oriented along the lengthwise axis of the board fence, and
 - b. is removable from the board fence by sliding the fence board stop out on an end of the slot.
5. The work surface guide of claim 1 wherein the board fence includes an elongated cut guide fence member extending therefrom into a cutting area located below and between the inner and outer guide rails, whereby swinging of the board fence swings the cut guide fence member in the cutting area.
6. The work surface guide of claim 5 wherein the cut guide fence member is adjustably extendable with respect to the board fence, whereby its degree of extension into the cutting area may be adjusted.

7. The work surface guide of claim 1 wherein the board fence includes:
- a. an outer end facing away from the cutting area, and
 - b. an opposing inner end facing toward the cutting area, the inner end being adapted to slidably receive an elongated cut guide fence member therein, whereby the cut guide fence member may be adjustably extended into the cutting area from the inner end of the board fence.

8. The work surface guide of claim 7 wherein the board fence has opposing side surfaces along its length against which a board may slide, and wherein at least one of the side surfaces includes a fence board stop extending therefrom.

9. The work surface guide of claim 8 wherein the fence board stop is relocatable along the lengthwise axis of the board fence.

10. The work surface guide of claim 1 wherein the board fence includes:
- a. an inner end facing toward the cutting area, and
 - b. an opposing outer end facing away from the cutting area, the outer end having an extension fence member thereon, wherein the extension fence member is adjustably extendable from the outer end along the lengthwise axis of the board fence.

11. The work surface guide of claim 10:
- a. wherein the board fence and extension fence member together define an at least substantially planar side surface against which a board may slide, the side surface being oriented at least substantially perpendicular to a plane defined by the guide rails;
 - b. further comprising a fence board stop extending from the side surface.

12. The work surface guide of claim 11 wherein the fence board stop is relocatable along the side surface.

13. The work surface guide of claim 1 wherein the board fence includes:

a. an inner end facing toward the cutting area, the inner end being adapted to slidably receive an elongated cut guide fence member therein, whereby the cut guide fence member may be adjustably extended along the lengthwise axis of the board fence into the cutting area from the inner end of the board fence;

b. an opposing outer end facing away from the cutting area, the outer end having an extension fence member thereon, wherein:

(1) the extension fence member is relocatable along the lengthwise axis of the board fence,

(2) the board fence and extension fence member together define an at least substantially planar side surface against which a board may slide, the side surface being oriented at least substantially perpendicular to a plane defined by the guide rails,

and wherein the board fence further includes a fence board stop extending from the side surface.

14. The work surface guide of claim 13 wherein the fence board stop is relocatable along the lengthwise axis of the board fence.

15. The work surface guide of claim 1 wherein the frame members define cutting tool end stops extending above the guide rails, whereby a power tool traveling on the guide rails travels between the cutting tool end stops.

16. The work surface guide of claim 15 wherein at least one of the guide rails includes a cutting tool side stop defined thereon, the cutting tool side stop extending above the guide rails, whereby a power tool traveling on the guide rails travels adjacent the cutting tool side stop.

5

17. The work surface guide of claim 1 further comprising an elongated board end stop:

- a. situated in planes oriented between an upper plane defined by the guide rails and a lower plane defined by the horizontal legs of the frame members,
- b. oriented at least substantially parallel to the outer guide rail,
- c. extending in a direction oriented between the frame members, and
- d. having adjustable spacing from the outer guide rail.

10

18. A work surface guide for power tools comprising:

- a. an inner guide rail;
- b. an outer guide rail aligned at least substantially parallel to the inner guide rail, whereby a power tool may travel on the inner and outer guide rails with a power tool cutting head extending therebetween;
- c. spaced frame members supporting and extending downwardly from the guide rails to terminate in frame member attachment ends, the frame member attachment ends being adapted to affix to a mounting surface to support the guide rails in a plane spaced above the plane of the mounting surface;
- d. an elongated board fence pivotally affixed with respect to the inner guide rail to swing in planes oriented at least substantially parallel to the inner and outer guide rails, the board fence including a cut guide fence member extending therefrom into a cutting area located below and between the inner and outer guide rails, whereby swinging of the board fence swings the cut guide fence member in the cutting area.

19. The work surface guide of claim 18 wherein the board fence includes:

- a. an outer end facing away from the cutting area, and
- b. an opposing inner end facing toward the cutting area, the inner end having the cut guide fence member slidably mounted thereon, whereby the cut guide fence member may be adjustably extended into the cutting area from the inner end of the board fence.

20. A work surface guide for power tools comprising:

- a. an elongated inner guide rail;
- b. an elongated outer guide rail aligned at least substantially parallel to the inner guide rail, whereby a power tool may travel on the inner and outer guide rails with a power tool cutting head extending therebetween into a cutting area defined below and between the guide rails;
- c. spaced frame members supporting and extending downwardly from the guide rails to terminate in frame member attachment ends, the frame member attachment ends being adapted to affix to a mounting surface to support the guide rails in a plane spaced above the plane of the mounting surface;
- d. an elongated board fence pivotally affixed with respect to the inner guide rail to swing in planes oriented at least substantially parallel to the inner and outer guide rails, the board fence including:
 - (1) an outer end facing away from the cutting area, and
 - (2) an opposing inner end facing toward the cutting area, the inner end being adapted to slidably receive an elongated cut guide fence member therein, whereby the cut guide fence member may be adjustably extended into the cutting area from the inner end of the board fence.